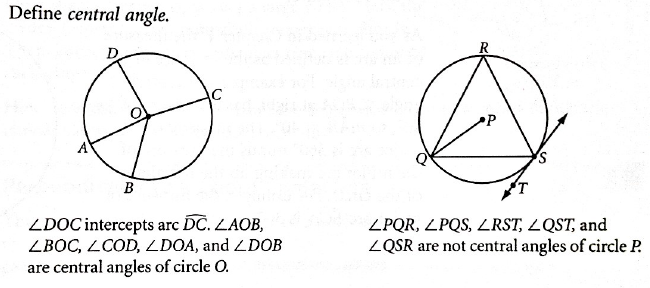
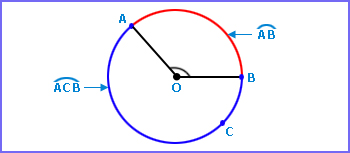
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Per.: \_\_\_\_\_\_\_\_

**6.3 Arcs and Central Angles: Folding Activity**



Define *arc*, *major arc, minor arc*



and are **arcs*.***

is a **major arc(blue)**

is a **minor arc (red)**

1. An arc of a circle is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .

Directions: Follow the steps below using the circle and answer the questions.

1. Fold the circle in half. What does the creased fold line represent? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Label it with this word and trace it with your pencil.

2. Fold the circle in half again along a different diameter. Unfold. What does the intersection point of the two fold lines represent? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Label it with this word and mark it with your pencil.

3. In relation to circles, what type of angles have you formed? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Label one of these angles with this word(s) and trace it with your pencil.

4. Each central angle intercepts an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Choose one, label it with the word you filled in the blank and trace it with your pencil.

5. Mark a dot on the circumference of the circle. Trace all the way around the circle until you return to that dot. How many degrees did your pencil just travel? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Fold your plate in such a way that all of the central angles measure 90o (you will need to make two folds). What is the measure of the arc that each of the central angles intercepts? \_\_\_\_\_\_\_\_

**Challenge!**

